

Listing of the Claims:

Claims 1-3: (Canceled).

Claim 4: (Currently Amended) ~~A~~ A radio communication system performing a soft hand-off procedure for a mobile station, the radio communication system, comprising: according to claim 1,

a base station controller for determining a commencement and a termination of the soft hand-off procedure,

a first base station for performing asynchronous communication with said base station controller via a first communication line and for assigning a first hand-off exclusive bandwidth to the first communication line bases on the commencement of the soft hand-off procedure, and

a second base station for performing asynchronous communication with said base station controller via a second communication line and for assigning a second hand-off exclusive bandwidth, that is approximately equal to the first hand-off exclusive bandwidth, to the second communication line bases on the commencement of the soft hand-off procedure,

wherein said the first base station comprising:

a soft hand-off bandwidth assign equipment for assigning the first hand-off exclusive bandwidth to the first communication line,

a normal bandwidth assign equipment for assigning a normal communication bandwidth to the first communication line, and

a bandwidth controller for activating said soft hand-off bandwidth during the soft hand-off procedures based on the commencement and a termination of the soft

hand-off procedure, and

wherein the second base station comprising:

a soft hand-off bandwidth assign equipment for assigning the second hand-off exclusive bandwidth to the second communication line,

a normal bandwidth assign equipment for assigning a normal communication bandwidth to the second communication line, and

a bandwidth controller for activating said soft hand-off bandwidth during the soft hand-off procedures based on the commencement and a termination of the soft

hand-off procedure.

Claim 5: (Currently Amended) ~~A~~ A radio communication system performing a soft hand-off procedure for a mobile station, the radio communication system comprising: according to claim 1,

a base station controller for determining a commencement and a termination of the soft hand-off procedure,

a first base station for performing asynchronous communication with said base station controller via a first communication line and for assigning a first hand-off exclusive bandwidth to the first communication line bases on the commencement of the soft hand-off procedure, and

a second base station for performing asynchronous communication with said base station controller via a second communication line and for assigning a second hand-off exclusive bandwidth, that is approximately equal to the first hand-off exclusive bandwidth, to the second

communication line bases on the commencement of the soft hand-off procedure,

wherein said first base station releases the first hand-off exclusive bandwidth from the first communication line and stops transmitting to the mobile station in response to the termination of the soft hand-off procedure, and

said second base station releases the second hand-off exclusive bandwidth from the second communication line and assigns a normal communication bandwidth to the second communication line in response to the termination of the soft hand-off procedure.

Claim 6: (Original) A radio communication system performing a soft hand-off procedure for a mobile station, the radio communication system comprising;

a base station controller for determining a commencement and a termination of the soft hand-off procedure,

a first base station for performing asynchronous communication with said base station controller via a first communication line, for notifying a first open-bandwidth of the first communication line to said base station controller, which is possible to be assigned for the soft hand-off procedure, and for assigning a common hand-off exclusive bandwidth to the first communication line in response to the commencement of the soft hand-off procedure, and

a second base station for performing asynchronous communication with said base station controller via a second communication line, for notifying a second open-bandwidth of the second communication line to said base station controller, which is possible to be assigned for the soft

hand-off procedure and for assigning the common hand-off exclusive bandwidth to the second communication line in response to the commencement of the soft hand-off procedure,

wherein said base station controller determines the common hand-off exclusive bandwidth by selecting a smaller bandwidth between the first open-bandwidth and the second open-bandwidth based.

Claim 7: (Currently Amended) ~~An~~ A radio communication system according to claim 6, wherein said the first base station comprising:

an open-bandwidth memory for storing the first open-bandwidth corresponding to the first communication line,

a soft hand-off bandwidth assign equipment for notifying the first open-bandwidth to the base station controller and for assigning the common hand-off exclusive bandwidth to the first communication line,

a normal bandwidth assign equipment for assigning a normal communication bandwidth to the first communication line, and

a bandwidth controller for activating said soft hand-off bandwidth during the soft hand-off procedures in response to the commencement and the termination of the soft hand-off procedure,

and wherein said the second base station comprising:

an open-bandwidth memory for storing second open-bandwidth corresponding to the

second communication line,

a soft hand-off bandwidth assign equipment for notifying the second open-bandwidth to the base station controller and for assigning the common hand-off exclusive bandwidth to the second communication line,

a normal bandwidth assign equipment for assigning a normal communication bandwidth to the second communication line, and

a bandwidth controller for activating said soft hand-off bandwidth during the soft hand-off procedures in response to the commencement and the termination of the soft hand-off procedure.

Claim 8: (Currently Amended) ~~An~~ A radio communication according to claim 6, wherein when the first open-bandwidth and the second open-bandwidth exceeds a maximum bandwidth of a radio channel assigned to each of the first and second base stations, the base station controller selects the maximum bandwidth as the common hand-off exclusive bandwidth.

Claims 9-11 (Canceled).

Claim 12: (Currently Amended): A soft hand-off method in a radio communication system comprising a base station controller which communicates with each of a first base station and a second base station by performing asynchronous communication ~~according to claim 9~~, the

method further comprising the steps of;

assigning a normal communication bandwidth to a first communication line between the base station controller and the first base station for normal communication between the base station controller and the mobile station,

determining a commencement of the soft hand-off procedure between the first base station and the second base station,

assigning a first hand-off exclusive bandwidth to the first communication line,

assigning a second hand-off exclusive bandwidth, which is approximately equal to the first hand-off exclusive bandwidth, to a second communication line between the base station controller and the second base station,

simultaneously transmitting packet signals from the base station controller to each of the first and second base stations via the first and second communication lines respectively,

determining a termination of the soft hand-off procedure,

releasing the first hand-off exclusive bandwidth from the first communication line,

assigning a normal communication bandwidth to the second communication line, and

releasing the second hand-off exclusive bandwidth from the second communication line,

wherein, the base station controller communicates with the second base station via the second communication line to which the normal communication bandwidth is assigned, and the first base station stops transmit to the mobile station.

Claim13: (Original) A soft hand-off method in a radio communication system comprising a base station controller which communicates with each of a first base station and a second base station by performing asynchronous packet communication, the method comprising the steps of;

assigning a normal communication bandwidth to a first communication line between the base station controller and the first base station for normal communication between the base station controller and a mobile station,

determining a commencement of the soft hand-off procedure between the first base station and the second base station,

notifying a first open-bandwidth that is possible to be assigned to the first communication line for the soft hand-off procedure,

notifying a second open-bandwidth that is possible to be assigned to a second communication line between the base station controller and the first base station for the soft hand-off procedure,

comparing the first open-bandwidth of the first communication line with the second open-bandwidth of the second communication line,

selecting a smaller bandwidth between the first open-bandwidth and the second open-bandwidth,

transmitting packet signals from the base station controller to the first base station via the first communication line to which the common hand-off exclusive bandwidth is assigned, and

transmitting packet signals from the base station controller to the second base station via the second communication line to which the common hand-off exclusive bandwidth is assigned.

Claim 14: (Original) A soft hand-off method according to claim 13, the method further comprising the steps of;

determining a termination of the soft hand-off procedure; releasing the common hand-off exclusive bandwidth from the first communication line,

assigning a normal communication bandwidth to the second communication line, and releasing the common hand-off exclusive bandwidth from the second communication line,

wherein, the base station controller communicate with the second base station via the second communication line to which the normal communication bandwidth is assigned and the first base station stops transmitting to the mobile station.